

ABSTRACT OF THE DISCLOSURE

The present invention provides principles and circuits for the power control of two-phase switched reluctance machines featuring a direct recovery of the phase switch-off energy and a 180° phase angle at full load. The power control method of the present invention does not require any supplementary power switches and acts through the logic circuitry upon the existing power switches of a motor which formerly did not exhibit a power control. The power control relies physically on a shorter current flow or duty cycle after the phase beginning. This can be done either through mechanical phase shift of a second Hall sensor or by using time delay circuits.